





Product Category: VCXO

Series Number	Package	Description	Last Modified	
550	14 Pin DIP	HCMOS / TTL	Jan. 01 2007	

### **FEATURES**

- Wide voltage control range
- Wave form symmetry of 40/60%
- HCMOS or TTL output
- Industry standard DIP 14 pin lead spacing
- RoHs / Lead Free compliant



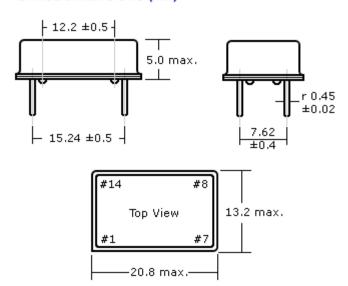


# **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

PARAMETERS	CONDITIONS	CHARACT	UNITS		
Output Logic	-	HCMOS / TTL Output		-	
Input Voltage (VDD)	-	3.3 ±10%	5.0 ±10%	VDC	
Frequency Range (f <sub>O</sub> )	-	1.5440 ~ 155.520		MHz	
Operating Temperature (T <sub>OPR</sub> )	-	0 ~ +70 (Std.) / -40 ~ 85 (Option)		°C	
Storage Temperature (T <sub>STG</sub> )	-	-55 ~ +125		°C	
Overall Frequency Stability	a + b + c + d	±20, ±25, ±50, ±100 max.		PPM	
	(a) Frequency Tolerance	Inclusive of Overall Stability		-	
	(b) Temperature Stability	Inclusive of Overall Stability (Operating Temperature)		-	
	(c) Input Voltage Stability	Inclusive of Overall Stability (VDD ±5%)		-	
	(d) Load Stability	Load Stability Inclusive of Overall Stability (RL ±5%)		-	
Input Current (I <sub>DD</sub> )	-	10 ~ 30 max.	15 ~ 50 max.	mA	
Aging	@ 25°C	±5 max.		PPM/Y	
Rise Time (T <sub>R</sub> ) / Fall Time (T <sub>F</sub> )	-	8 max. (0.4V to 2.4V / TTL; 20% to 80% / HCMOS)		nS	
Pin 1 Control Voltage Range	-	1.65 ±1.35	2.5 ±2	V	
Output Voltage High "4" VOII	TTL Load	2.4 min.		\/D0	
Output Voltage High "1" VOH	HCMOS Load	2.7 min.	VDD-0.5 min.	VDC	
	TTL Load	0.4 max.		VDC	
Output Voltage Low "0" VOL	HCMOS Load	0.5 max.			
Duty Cycle	-	50 ±10 (Std.) / 50 ±5 (Option)		%	
Start-Up Time (T <sub>S</sub> )	-	10 max.		ms	
Jitter	(One Sigma)	±25 max. (< 52MHz); ±50 max (> 52MHz)		ps	
Linearity	-	±20 (Std.) / ±10 , ±5 (Option)		%	

PIN CONNECTIONS Voltage Control

## PACKAGE DIMENSIONS (mm)



#7	Case Ground
#8	Output
#14	VDD

### **PART NUMBER GUIDE**

Series Number	Frequency	Voltage Supply Option	Frequency Tolerance & Stability (max.)	Operating Temp. (°C)	Duty Cycle	Pulling Range	Linearity
550	- 12.0 M	- 3	Е	N	- T	P1	20
Oscilent VCXO	Enter your desired frequency e.g. 12.0M for 12.000 MHz	5 = 5VDC 3 = 3.3VDC	D = ±100 PPM E = ±50 PPM F = ±25 PPM G = ±20 PPM	Blank* = 0~+70 N = -40~+85	Blank*= 50±10% T = 50±5%	P1 = ±50PPM P2 = ±100PPM P3 = ±150PPM	20 = ±20% 10 = ±10% 05 = ±5%

NOTE: - Deviations on all parameters available. Please consult Oscilent for details.

**DEFINITIONS:** - Click on the characteristic names above for definitions of that particular characteristic.

\*STANDARDS: - "Blank" part number selections indicate standard variables for that particular characteristic.

GULL WING: - Add -G for Gull Wing at end of part number

PACKAGING: - Standard tube packaging, add -TR for Tape/Reel. Click here for tape/reel specifications

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Series No.: 550

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